

# INTERNATIONAL SEARCH REPORT

Intellectual Application No  
PCT/US2004/020566

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L7/02 G06F11/36 G06F5/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | WO 02/48722 A (INTEL CORP ; ANALOG DEVICES INC (US)) 20 June 2002 (2002-06-20)<br>page 3, line 18 - line 22<br>page 4, line 21 - page 6, line 17 | 1-3,5,<br>10-12       |
| Y          | page 12, line 18 - page 13, line 6<br>page 13, line 17 - page 14, line 11<br>page 16, line 8 - line 14   | 4,13                  |
| A          | page 18, line 3 - page 19, line 8<br>figures 1-9   | 6                     |
| X          | EP 1 091 298 A (ST MICROELECTRONICS INC)<br>11 April 2001 (2001-04-11)   | 6-9                   |
| Y          | page 2, paragraph 9 - paragraph 10<br>page 6, paragraphs 45,49   | 4,13                  |
| A          | figures 2,3  | 2,11                  |
|            | -----<br>-/--  |                       |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

12 October 2004

Date of mailing of the international search report

19/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Pieper, T

# INTERNATIONAL SEARCH REPORT

Int'l Patent Application No  
PCT/US2004/020566

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | US 5 331 669 A (WANG JAMES H ET AL)<br>19 July 1994 (1994-07-19)<br>column 2, line 14 - line 25<br>column 3, line 63 - column 4, line 33<br>column 4, line 52 - line 61<br>column 6, line 34 - line 46  | 1,3,5,<br>10,12       |
| A          | column 7, line 8 - line 25<br>figures 2,3,5   | 6,11                  |
| X          | US 2003/081707 A1 (SUGAHARA HIROHIDE ET AL) 1 May 2003 (2003-05-01)<br>paragraph '0002!<br>paragraphs '0030! - '0033!<br>figures 1,2  | 1,3,5,<br>10,12       |
| A          | US 2003/081713 A1 (EVOY DAVID ET AL)<br>1 May 2003 (2003-05-01)<br>paragraph '0033! - paragraph '0037!<br>figures 1,2   | 3,4,6-9,<br>13        |
| A          | US 5 291 529 A (GALUSZKA ROBERT J ET AL)<br>1 March 1994 (1994-03-01)<br>column 1, line 5 - line 11<br>column 3, line 39 - column 4, line 40<br>column 5, line 7 - line 24<br>column 5, line 65 - column 6, line 36<br>figures 2-5              | 4,6-9,13              |
| P,A        | DE 102 29 129 C (ADVANCED MICRO DEVICES INC) 11 December 2003 (2003-12-11)<br>column 2, paragraph 11<br>column 3, paragraph 17<br>column 4, paragraph 31<br>column 5, line 34 - line 45<br>column 6, paragraph 39 - paragraph 40<br>figures 2,8 | 4,6,13                |

# INTERNATIONAL SEARCH REPORT

Int. Patent Application No  
PCT/JP2004/020566

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s)                           | Publication<br>date                    |
|---|----|---------------------|--|--|
| WO 0248722                                | A  | 20-06-2002          | US 2002078420 A1<br>JP 2004515787 T<br>WO 0248722 A2 | 20-06-2002<br>27-05-2004<br>20-06-2002 |
| EP 1091298                                | A  | 11-04-2001          | EP 1091298 A2<br>JP 2001147831 A                     | 11-04-2001<br>29-05-2001               |
| US 5331669                                | A  | 19-07-1994          | NONE   |  |
| US 2003081707                             | A1 | 01-05-2003          | JP 2003143117 A                                      | 16-05-2003                             |
| US 2003081713                             | A1 | 01-05-2003          | EP 1442550 A2<br>WO 03039061 A2                      | 04-08-2004<br>08-05-2003               |
| US 5291529                                | A  | 01-03-1994          | GB 2262415 A   | 16-06-1993                             |
| DE 10229129                               | C  | 11-12-2003          | DE 10229129 C1<br>US 2004003027 A1                   | 11-12-2003<br>01-01-2004               |